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GAA	1	CTT	×
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CCAACCTCAACTCAAGGACAGAGACTATAAAATTTGCTGCAGCACATTATAATACAG

MATCH WITH FIG. 1B

FIG

F1G. 1A



301	MATCH WITH FIG. 1A	360
	GGTTGGAGTTCCTGTCTCTGATATTTTAAACGACGTCGTGTAATATTATGTC N L N S R T E E T I K F A A A H Y N T E	) ) )
361	AGATCTTGAAAAGTATTGATAATGAGTGGAGAAAGACTCAATGCATGC	420
	TCTAGAACTTTTCATAACTATTACTCACCTTTCTGAGTTACGTACG	. 1
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4	CCCTTCCTCAAACCTCAGCGCTGTTTGTGGAAGAAATTTGGAGGTACAC	) ) !' !
4 A		C V
4	TCTACACCCCCAACGACGTTATCACTCCCCGACGTCACGTACTTGTGGT	) ! )
541		009
	GAGTCGTTCTGCAATAAACTTTAATGTCACGGAGAGAGAG	) )
603		0
	TAGTCAAAACGGTTAGTGTGAAGGACGGCTACGTACAGATTTGACCTACIACS IS FANH TSCRCTACGTACAGATTTGACCTAC	O 0 0

MATCH WITH FIG.



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regecetgecagetgtggacecearaagaactagacagaaacteatgecagt	096 ++	<b>AGCCGGACGGTCGACACCTGGGGTGTTTCTTGATCTGTCTTTTGAGTACGGTCA</b>	- O O O O N A C I H N H A C O O O O O O O
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GTGTCTGTAAAAACAAACTCTTCCCCAGCCAATGTGGGGCCAACCGAGAATTTGATGAAA	961	CACAGACATTTTGTTTGAGAAGGGGTCGGTTACACCCCGGTTGGCTCTTAAACTACTTT	MATCH WITH FIG. 1D FIG. 4



## MATCH WITH FIG. 1C

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CAGGATTTTCATATAGTGAAGAGTGTGTCGTTGTGTCCCTTCATATTGGCAAAGACCAC GTCCTAAAAGTATATCACTTCTTCACACACACACAGGGAAGTATAACCGTTTCTGGTG EVCRCVPSYWOR ы ഗ

**AAATGAGCTAAGATTGTACTGTTTTCCAGTTCATCGATTTTTCTATTATGGAAAACTGTGT** 

MATCH WITH FIG. 1E FIG. 1D



# MATCH WITH FIG. 1D

	TGCCACAGTAGAACTGTGTGTGAACAGAGAGCCCTTGTGGGTCCATGCTAACAAAGACA	
1321		380
	<b>ACGGTGTCATCTTGACAGACACTTGTCTCTCTGGGAACACCCCAGGTACGATTGTTTCTGT</b>	
	AAAGTCTGTCTTTCCTGAACCATGTGGATAACTTTACAGAAATGGACTGGAGCTCATCTG	
1381		440
	TTTCAGACAGAAAGGACTTGGTACACTTATAATAAAAAAAA	

	1500	
CAAAAGGCCTCTTGTAAAGACTGGTTTTCTGCCAATGACCAAACAGCCAAGATTTTCCTC	14]+	GTTTTCCGGAGAACATTTCTGACCAAAAGACGGTTACTGGTTTGTCGGTTCTAAAAGGAG
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	1560	
TTGTGATTTCTTTAAAAGAATGACTATATAATTTTATTTCCACTAAAAATATTTCTGC	00]	AACACTAAAGAAATTTTCTTACTGATATTTTA TTA AATAAAAAAAAAA
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	1620	)   
ATTCATTTTTATAGCAACAATTGGTAAACTCACTGTGATCAATATTTTTATATCAT	161	TAAGTAAAATATCGTTGTTGATTAACCATTTTGAGTGACACTAGTTATAAAAATATAGTA
	12	

	1674	· ·
GCAAAATATGTTTAAAATAAAATGAAAATTGTATTTATAAAAAA	77	CGTTTTATACAAA TITITATAAA TITITAA TITITAA AA TAATAA AA TAATAA AA TAATAA AA AA
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F1G. 1E



H	CGA	\GG(	CCAC	366(	CTT!	CGAGGCCACGGCTTATGCAAGCAAAGATCTGGAGGAGCAGTTACGGTCTGTGTCCAGTGT	AAC	CAA	AGA	TCI	GGA	GGA	GCA	GTT	ACG	GTC	TGI	GTC	CAG	TG
71	AGA	TG?	AAC7	CTCAT	IGAC	AGATGAACTCATGACTGTACTCTACCCAGAATATTGGAAAATGTACAAGTGTCAGCTAAG	·ACT	CTA	000	AGA	ccagaata	TTG	GAA	AAT	GGAAATGTAC	CAA	GTG,	TCA	GCT	'AAG
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121	GAA	AGG	3AGC	CTC	3GC 2	GAAAGGAGGCTGGCAACATAACAGAGAACAGGCCAACCTCAACTCAAGGACAGAAGAGAC	TAZ.	CAG	AGA	ACA	SGC	CAA	CCT	CAA	CTC	AAG	GAC	AGA	AGA	GAC
	   14 	ט	M C C W	,   3	ī	i Q	 	W   Z   Z		† ! 0	K	Z	1	   Z +	E Q A N L N S R T E E T	i K	! + [→ !	і і (1)	[ [ ]	!
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241	GAG	AAA	GAC	TCA	ATG	GAGAAAGACTCAATGCCACGGGAGGTGTGTATAGATGTGGGGAAGGAGTTTGGAGT	GCC	ACG	GGA	GGT	GTG'	TAT.	AGA	TGT	999	GAA	GGA	GTT	TGG	AGT
	K	K K	R K T O	Ø	U	RKTQCMPREVCIDVGKE	    -   	民田	口	† >	l o	   H 		   > <del> </del>	VCIDVGK	. 저	<b>上</b> 山	· · · ·	ט	>
301	CCC	GAC	AAA	CAC	CTT	CGCGACAAACACTTCTTTAAACCTCCATGTGTGTCCGTCTACAGATGTGGGGGTTGCTG	TAA	ACC	TCC.	ATG	TGT	3TC	CGT	CTA	CAG.	ATG	TGG	მვვ	TTG	CTC
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FIG. 2A



361	CA	ATA	GTG.	AGG	299	TGC	AGT	נטטן:	\TG	AAC	ACC	AGC	ACC	3AG	CTA	CCI	CAC	CAZ	AGAC	GTT	CAATAGTGAGGGGCTGCAGGCATGAACACCAGCACGAGGTACCTCAGCAAGACGTTATT
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421	TG?	AAA	TTA(	CAG	TGC	CTC	TCI	CTC	:AA(	360	CCC	AAA:	, CC2	\GT;	AAC	AAT	CAG	TTT	rTGC	CAA	TGAAATTACAGTGCCTCTCTCTCAAGGCCCCCAAACCAGTAACAATCAGTTTTGCCAATCA
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481	CAC	TL	CACTTCCTGCCGATGCATGTCTAAACTGGATGTTTACAGACAAGTTCCATTCCATTATTAG		GAT	GCA	TGI	CTÀ	AA	CTG(	GAT	'GTT	TAC	AG.	ACA	AGT	ŢĊ	\TT\	CAT	TAT	TAG
	€	S	)     	2	U	Σ	  -	×			! Q	>	; ; >-	i K	i O	D V Y R Q V		+ S	H	      	+ ~.
541	ACG	TL		rgc.	CAG	CAA	CAC	TAC	CAC	PAG	rgT	CAG	GCA	יפכני	3AA(	CAA	GAC	CTC	CCC	CAC	CAA
	K	S		L - 1		ATLPQCQAANKTCPTN	+	<u>с</u> ,		Ø	ָ ט	O	   <b> </b>	†   4	Z	   天 	   [- 	ָ ני !	і І Си І	   [-  	+   Z
601	TTA	CAS		3GA	ATA	ATC.	ACA	$\mathtt{TCT}$	CC?	\GA5	[G	CTG	GCT	CAC	GA	AGA	${ m TTT}$	TAT	GTT	${ m TTC}$	CTC
	<b>&gt;</b>	X M		N			+ ++   	U			ָר ל ט		- K	O	i L	R C L A Q E D F M	   [24 	   \ \ \ \ \ \	l [ii	   S	t s
661	GGA	TGC	GGATGCTGGAGA	3AG	4TG	TGACTCAACAGATTCCATGACATCTGTGGACCAAACAAGGAGCT	ZAA.	CAG	ATG	;GA1	T.C.	CAT	3AC	ATC	TG	<u>1</u> GG,	ACC	AAA	CAA	GGA	GCT
	Ω	4	ט	Ω.	Ω	S	! +	Ω	ָ ו ו	1 (L <sub>1</sub>	ι <del>†</del>	1		+     H	ט ל	D I C G P	<u> </u>	 	   X 	i i i	+ 1
										FIG 2B	2	œ									



721	GGATGAAGAGACCTGTCAGTGTCTGCAGAGCGGGGCTTC	GGCCTG	CCAGCTGTGGACC
	DEETCQCVCRAGLR	4 d ~	S C G P
781	CCACAAAGAACTAGACAGAAACTCATGCCA	AAAACA	AACTCTTCCCCAG
	H K E L D R N S C Q C V C K N K L	MUZ	+ S G G F F F F F F F F F F F F F F F F F
841	CCAATGTGGGGCCAACCGAGAATTTGATGAAAACACATGCC	AGTGTG	TATGTAAAAGAAC
	Q C G A N R E F D E N T C Q		C K R H
901	CTGCCCCAGAAATCAACCCCTAAAATG	GTGAAT	STACAGAAAGTCC
	C P R N Q P L N P G K C A C E	A C E C T E	+ d S = E = E = E = E = E = E = E = E = E =
961	ACAGAAATGCTTGTTAAAAGGAAAGAAGTTCCACCACC	CATGCA	SCTGTTACAGACG
	Q K C L L K G K K F H H Q T C S	C S	C Y R R
1021	GCCATGTACGAAC	CATATAC	STGAAGAAGTGTG
•	PCTNRQKACEPGFSYSEEVC		т — — — — — — — — — — — — — — — — — — —

FIG. 2C



1081	TGTGTCCCTTCATATTGGCAAAGA
	RCVPSYWQRPQMS
1141	GTTCATCGATTTTCTATTATGGAAAACTGTGTTGCCACAGTAGAACTGTCTGT
1201	GAGACCCTTGTGGGTCCATGCTAACAAAGACAAAAGTCTGTCT
1261	TAACTTTACAGAAATGGACTGGAGCTCATCTGCAAAAGGCCTCTTGTAAAGACTGGTTTT 
1321	CTGCCAATGACCAAACAGCCAAGATTTTCCTCTTGTGATTTCTTTAAAAGAATGACTATA
1381	TAATTTATTTCCACTAAAATATTTGTTTCTGCATTCATTTTTTATAGCAACAATTGGT 
1441	AAAACTCACTGTGATCAATATTTTTATATCATGCAAAATATGTTTAAAATAAAAAAAA
1501	TTGTATTATAAAAAAAAAA

F1G. 2D



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LGCGYLAHVL AEEAEIPREV IERLARSQIH SIRDLQRLLE SLCCYLRLVS AEGDPIPEEL YEMLSDHSIR SFDDLQRLLH SWVHWSLALL LY	100 LARGRRSIEEAVP LARGRRSLG SLTIAEPAMI VYQR	150 Pdgfa AVCKTRTVIY EIPRSQVDPT SANFLIWPPC VEVKRCTGCC NTSSVKCOPS Pdgfb AECKTRTEVF EISRRLIDRT NANFLYWPPC VEVQRCSGCC NNRNVQCRPT Vegf SYCHPIETLV DIFQEYPDEI .EYIFKPSC VPLMRCGCCC NDEGLECVPT Vegf2 TQCMPREVCI DVGKEFGVATNTFFKPPC VSVYRCGCCC NSECLQCMNT	200 AT ETVAAARPVT DRARQEKKSV DVYRQVHSII
1 Pdgfa .MRTLACLLL LGCGYLAHVL AEEAEIPREV IERLARSQIH Pdgfb MNRCWA.LFL SLCCYLRLVS AEGDPIPEEL YEMLSDHSIR VegfMNFLL SWVHWSLALL LY	LPIRRKRSI. LARGRRSLG. VYOR	VEVKRCTGCC VEVQRCSGCC VPLMRCGGCC VSVYRCGCCC	Pdgfa RVHHRSVKVA KVEYVRKKPK LKEVQVRLEE HLEGAG AT
AEEAE I PREV AEGOP I PEEL L Y	51 Pdgfa IDSVGSEDSL DTSLRAHGVH ATKHVPEKRP LPIRRKRSI. Pdgfb GDP.GEEDGA ELDLNMTRSH SGGELES LARGRRSLG Vegf APMAEGGG NHHEVVKFMD .VYQR Vegf2 REQANLNSRI EETIKFAAAH YNTEILKSID NEWRK	SANFL IMPPC NANFL VMPPC EYIFKPSC NTFFKPPC	LKEVQVRLEE FKKATVTLED QHIGEMSFLQ PKPVTISFAN
LGCGYLAHVL SLCCYLRLVS SWVHWSLALL LYPEYWKMYK	51 Pdgfa IDSVGSEDSL DTSLRAHGVH ATKHVPEKRP Pdgfb GDP.GEEDGA ELDLNMTRSH SGGELES Vegf APMAEGGGQ NHHEVVKFMD Vegf2 REQANLNSRT EETIKFAAAH YNTEILKSID	E I PRSQVDPT E I SRRL I DRT D I FQEYPDE I DVGKEFGVAT	KVEYVRKKPK KIE IVRKKPI RIK.PHQC EIT.VPLSQC
Pdgfa .MRTLACLLL Pdgfb MNRCWA.LFL VegfMNFLL	51 IDSVGSEDSL GDP.GEEDGA APMAE	101 AVCKTRTVIY AECKTRTEVF SYCHPIETLV TQCMPREVCI	151 RVHHRSVKVA QVQLRPVQVR EESNITMQIM STSYLSKTLF
Pdgfa Pdgfb Vegf Vegf	Pdgfa Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf2

FIG. 3A



RTVRVRRPPK GKHRKFKHTH DKTALKETLG KSRYKSWSVY VGARCCLMPW SLPGPHP NYMMNNHICR CLAQEDFMFS SDAGDDSTDG	300RKHLFVQDP QTCKCSCKNT PHKELDR NSCQCVCKNK	350  CTESPOKCLL	398 
RTVRVRRPPK GKHRKFKHTH KSRYKSWSVY VGARCCLMPW NYMMNNHICR CLAQEDFMFS	30C	35C  DKPRR  VCKRTCPRNQ PLNPGKCACE CTESPQKCLL	Pdgfa
		DKPRR	OKACEPGFSY
	LDEETCOCVC	301 DSRCKARQ LELNERTCRC LFPSQCGANR .EFDENTCQC	SCYRRPCTNR
201 b RSPGGSQEQR f RGK	Pdgfa Pdgfb A	301 DSRCKARO LFPSQCGANR	351  KGKKFHHQTC
Pdgfa Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf	Pdgfo Pdgfb Vegf Vegf2	Pdgfa Pdgfb Vegf Vegf

### FIG. 3B

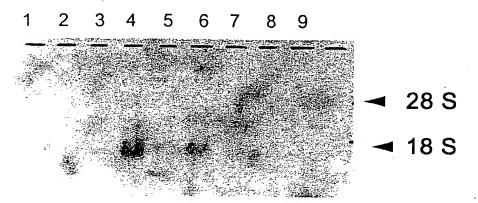


BETWEE IE	VEGF2				
D IDENTITIES SHOWN IN THE	VEGF		·		30.0
OF AMINO ACID IF GENES IS SHC FOLLWING TABLE	PDGFβ			22.7	22.4
PERCENTAGE (%) OF AMINO ACID IDENTITIES BETWEEN EACH PAIR OF GENES IS SHOWN IN THE FOLLWING TABLE	PDGFa		48.0	20.7	23.5
PERCEI E		PDGFa	PDGFB	VEGF	VEGF2

FIG.4



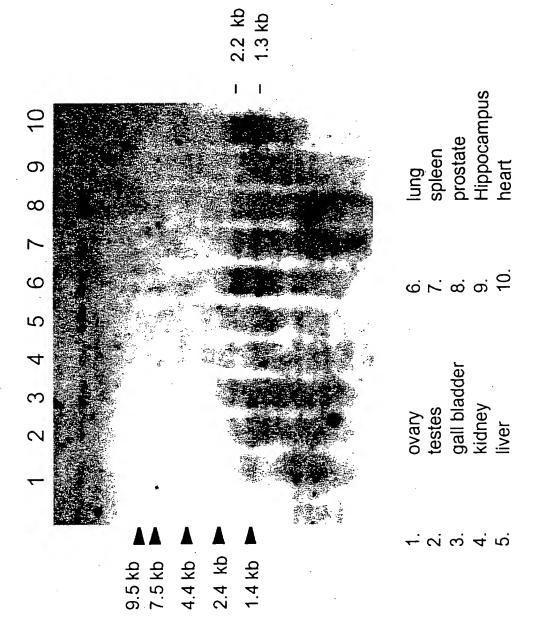
#### Expression of VEGF2 mRNA in Human Breast Tumor Cells



Lane 1. normal breast tissue Lane 2. breast tumor tissue Lane 3-9. breast tumor cell lines.

FIG.5

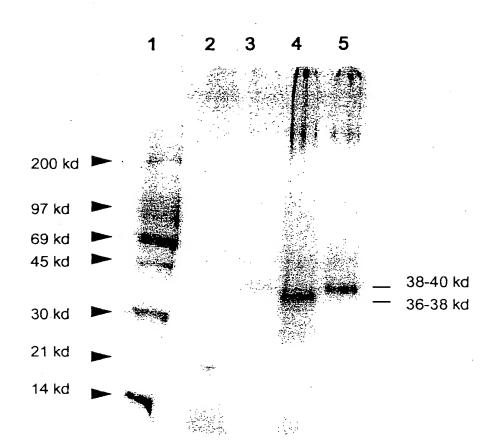




Expression of VEGF2 mRNA in human adult tissues.

FIG.6





Lane 1: 14-C and rainbow M.W. marker

Lane 2: FGF control

Lane 3: VEGF2 (M13-reverse & forward primers)
Lane 4: VEGF2 (M13-reverse & VEGF-F4 primers)
Lane 5: VEGF2 (M13-reverse & VEGF-F5 primers)

FIG.7



non-reducing gel

 $\mathbf{z}$ 

M 1 M 2

6 to 1 **-** 29

30 —

45 —

Marker vector medium VEGF2 medium Lane M Lane 1 Lane 2

FIG.8A

	≆					Taran .		
	4				1			
de	~	: يُحيد ا	11				1	
ing	≥							
reducing gel	7			÷				
21	-							
	≥							
		210 —	98	 	45 —	- 0°	21—	

Marker Lane M:

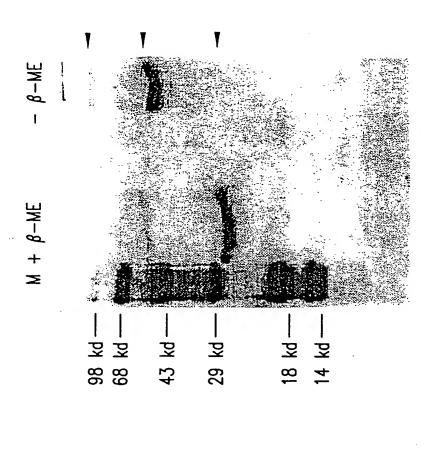
vector Cytoplasm

Lane 1: Lane 2: Lane 3: Lane 4:

vector medium VEGF2 Cytoplasm VEGF2 medium

FIG.8B





18 kd –

29 kd-

43 kd-

98 kd | 68 kd |

Lane 1: Molelular weight marker
Lane 2: Precipitates containing VEGF2.
FIG.9

FIG. 10



18/38

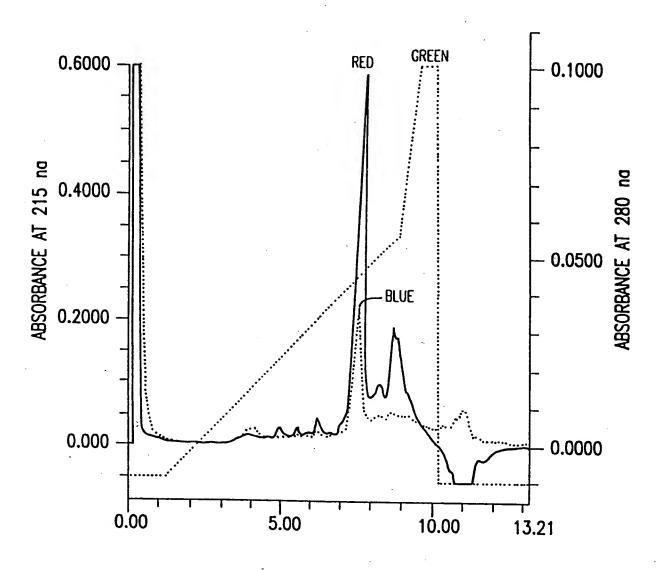


FIG. 11



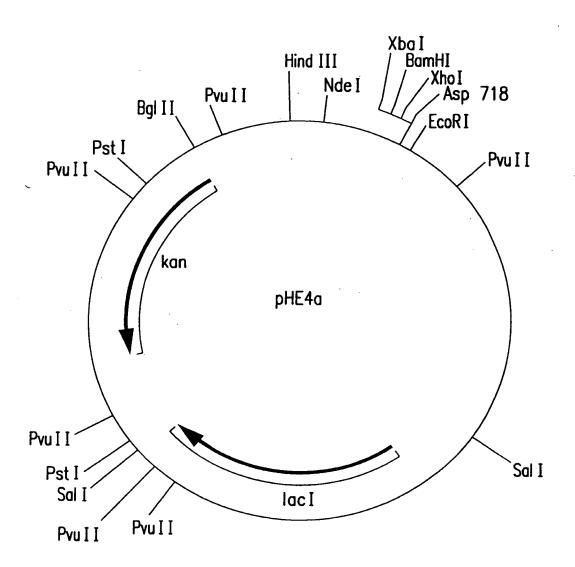


FIG.12

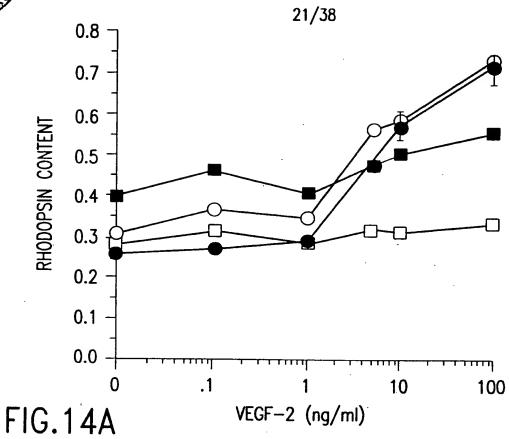


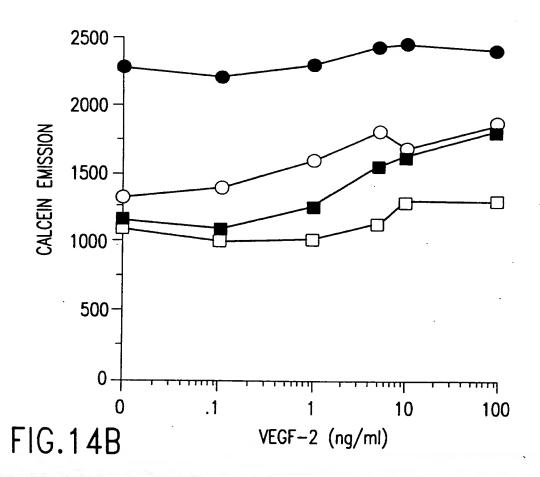
OPERATOR 1 A A G C T T A A A A A C T G C A A A A A A T A G T

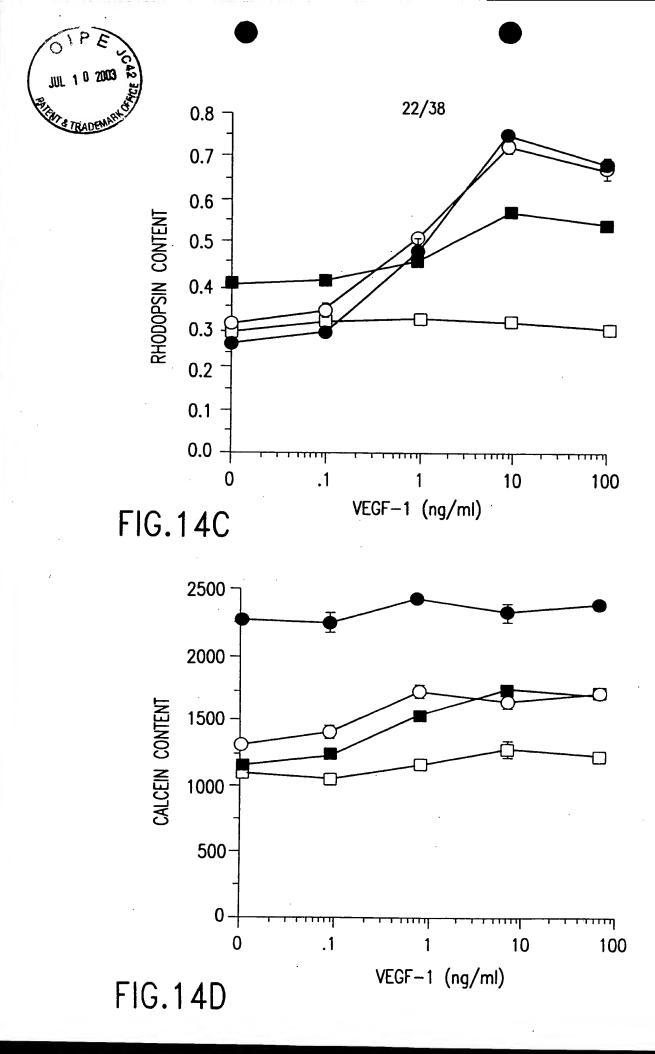
ITCACACATTAA OPERATOR 2 TAAGATGTACCCA(A 20

S/D 94 AGAGAGAATTA CATATG FIG.13











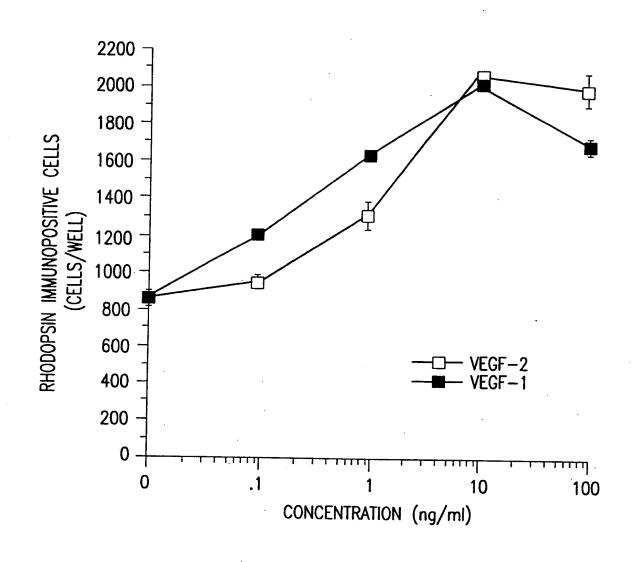
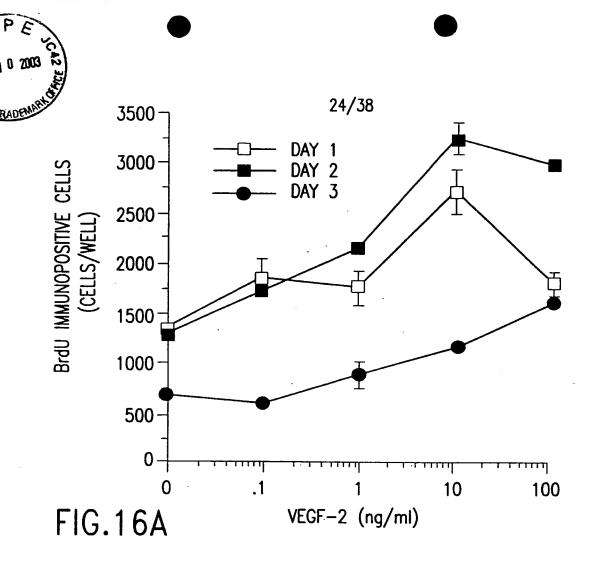
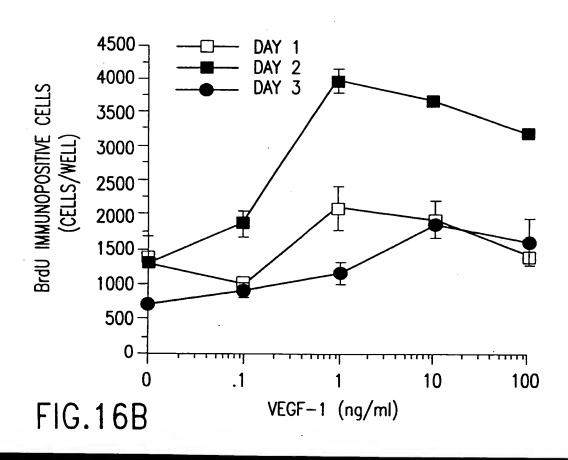


FIG.15







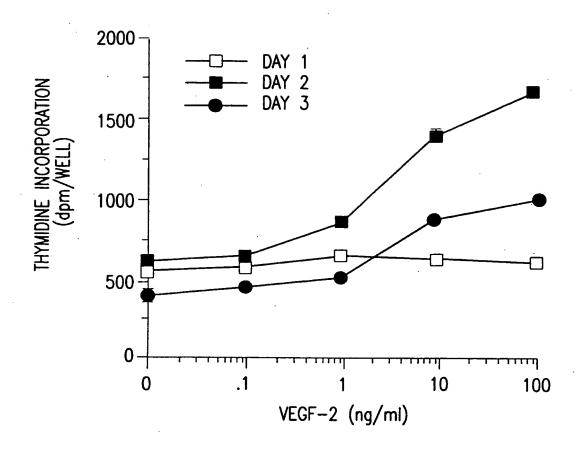


FIG.16C



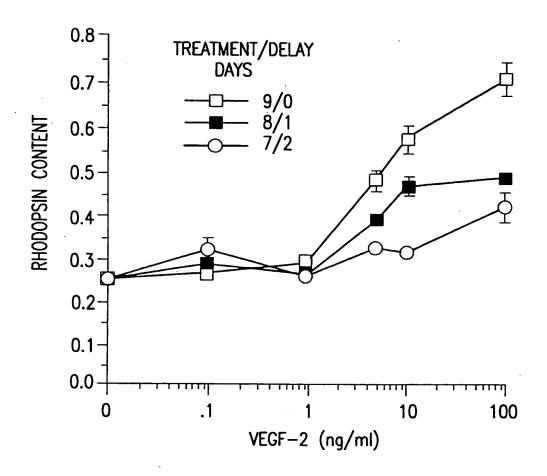


FIG.17A



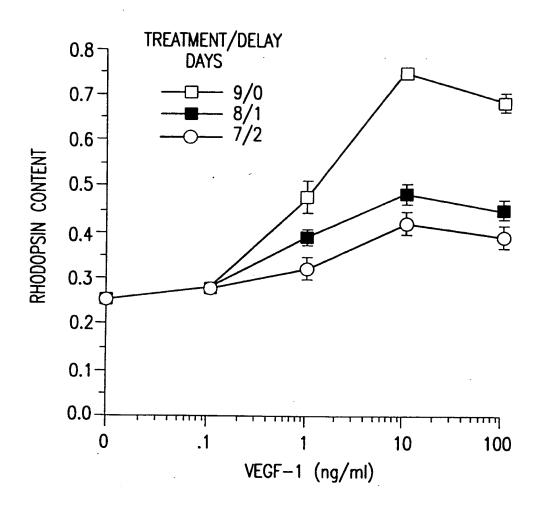
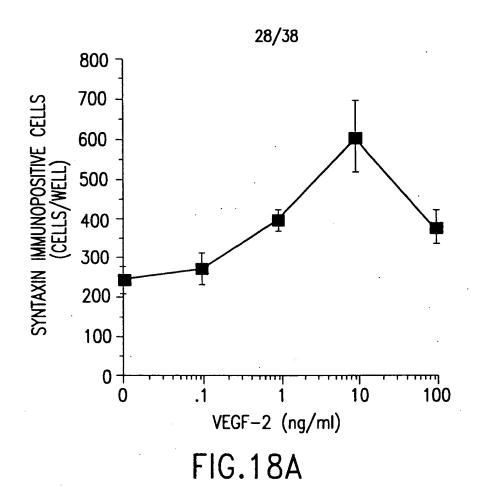
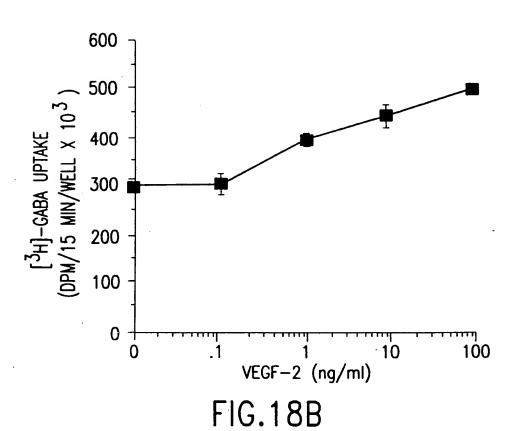


FIG.17B









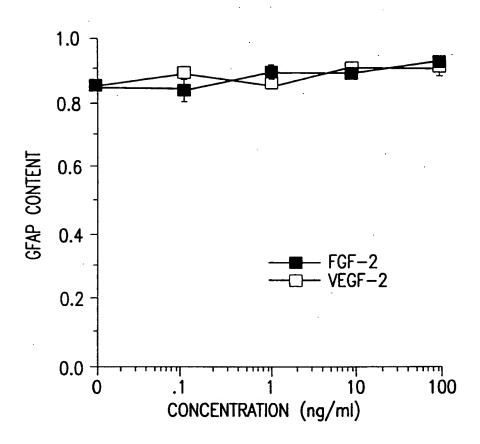


FIG.18C





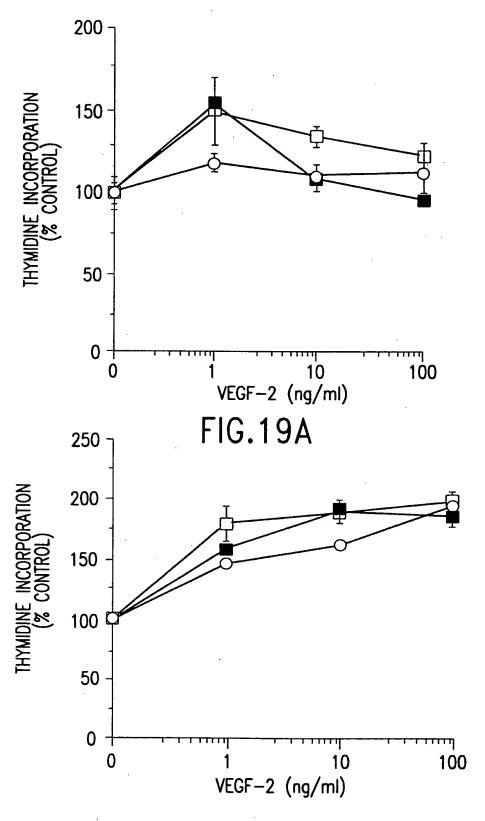


FIG.19B



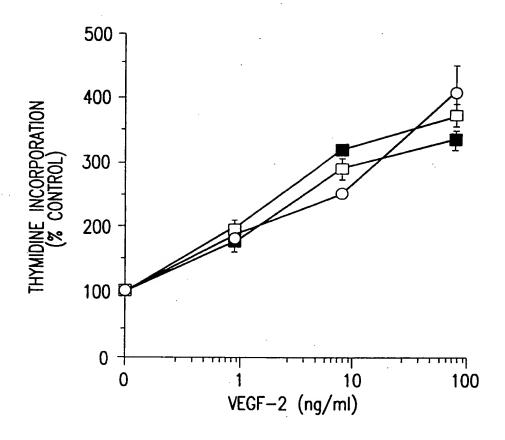
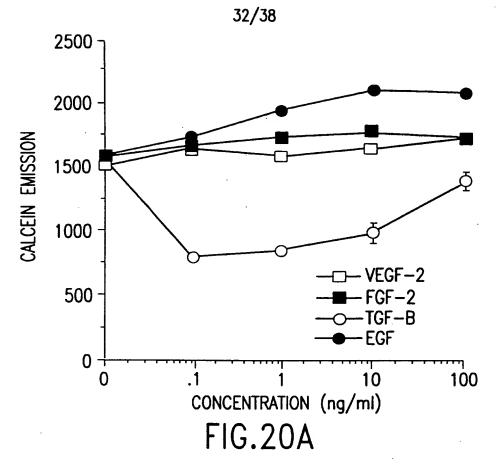
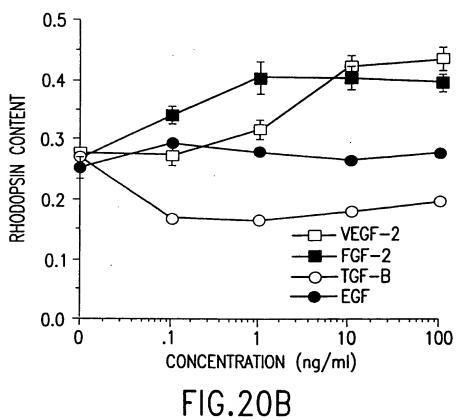


FIG.19C









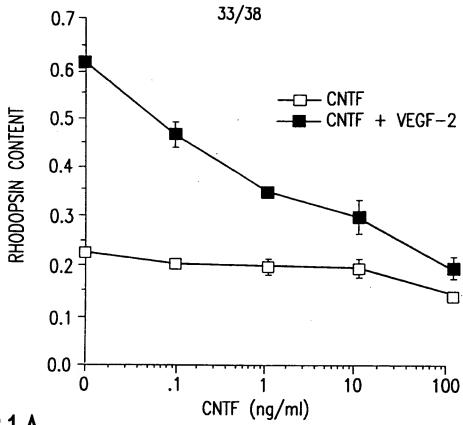


FIG.21A

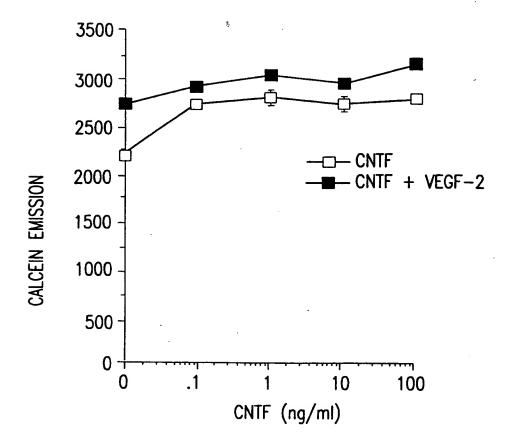


FIG.21B



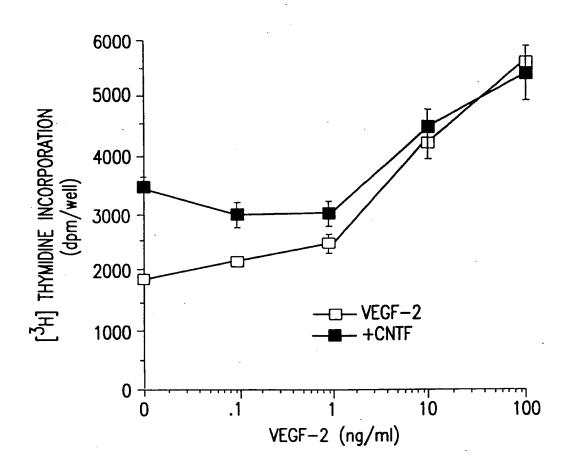


FIG.21C



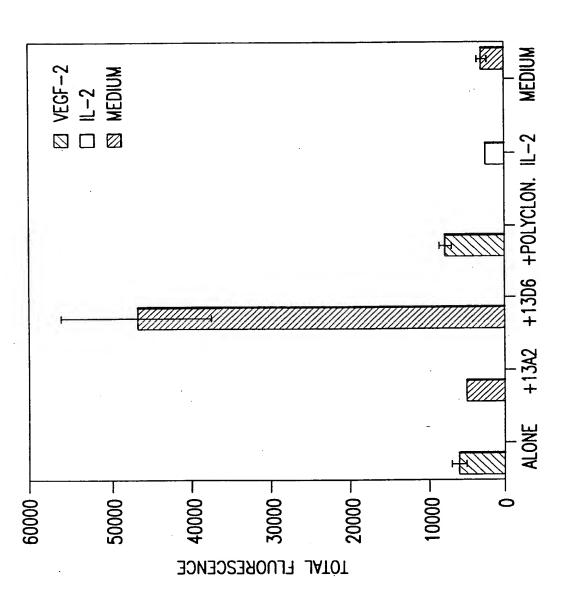


FIG. 22



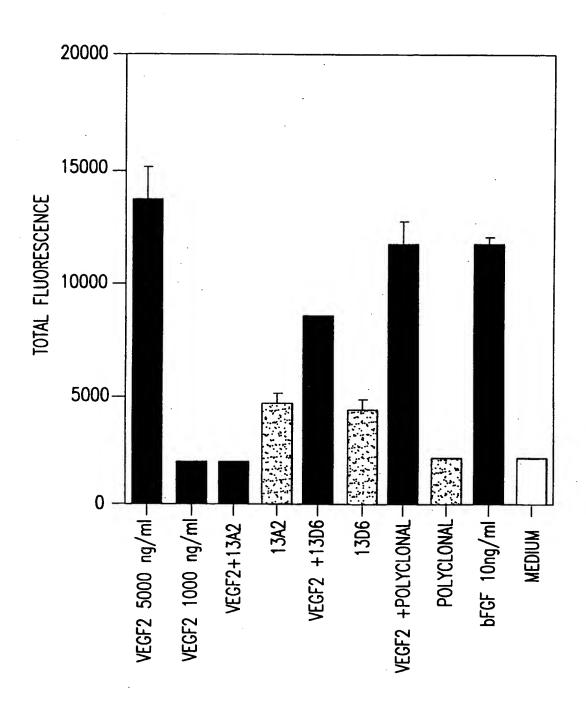


FIG.23



EPITOPE MAP FOR MURINE ANTI VEGF-2 MAB

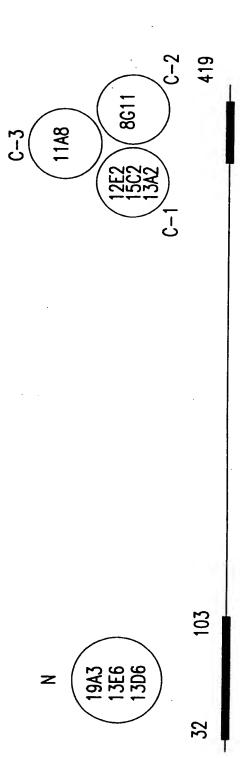


FIG.24



### MURINE VEGF-2 MAB STATUS

EL. AFFINITY SPECIFICITY REACING/ml  C-1 +  C-1 +  C-1 n.t
C-1
ZZ
Z
C-2
C-3

FIG.25